What is claimed is:

1. A method of transferring via a network boot files from a server to a client having a pre-OS environment, comprising:

installing a client certificate of authenticity in the

- 5 client;
 - requesting by the client via the network that the server transfer the boot files to the client; sending by the client via the network the installed client certificate of authenticity;
- authenticating by the server of the client by the received client certificate of authenticity;
 - sending by the server via the network a server certificate of authenticity to the client in response to authenticating by the server of the client;
- authenticating by the client of the server by the received server certificate of authenticity; requesting by the authenticated client via the network that the authenticated server transfer the boot files to the authenticated client;
- transferring the boot files from the authenticated server to the authenticated client in response to the requesting by the authenticated client; authenticating by the authenticated client of the transferred boot files; and
- executing by the authenticated client of the authenticated boot files.
 - 2. The method of claim 1 wherein clients that have an invalid or revoked certificate are not authenticated or answered by the server.

- 3. The method of claim 1 wherein servers that have an invalid or revoked certificate are not acknowledged by the client.
- 4. The method of claim 1 wherein boot files received by the client that are incorrectly signed are not executed by the client.
- 5. The method of claim 1 wherein the transferred boot files include a signature and wherein the client verifies the signature.
- 6. A method of transferring boot files from a server to a client, comprising:
 authenticating by the server of the client;
 authenticating by the client of the server; and
 transferring the boot files from the authenticated server
 to the authenticated client.
 - 7. The method of claim 6 further comprising authenticating by the authenticated client of the transferred boot files.
 - 8. The method of claim 7 further comprising executing by the authenticated client of the authenticated boot files.
 - 9. The method of claim 6 wherein clients that have an invalid or revoked certificate are not authenticated or answered by the server.
 - 10. The method of claim 6 wherein servers that have an invalid or revoked certificate are not acknowledged by the client.

- 11. The method of claim 6 wherein boot files received by the client that are incorrectly signed are not executed by the client.
- 12. The method of claim 6 wherein the transferred boot files include a signature and wherein the client verifies the signature.
- 13. A method of transferring via a network boot files from a server to a client having a pre-OS environment, comprising:

installing a client certificate of authenticity in the client;

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requesting by the client via the network that the server transfer the boot files to the client; sending by the client via the network the installed client certificate of authenticity;

- authenticating by the server of the client by the received client certificate of authenticity; and transferring the boot files from the server to the authenticated client.
 - 14. The method of claim 13 further comprising: authenticating by the authenticated client of the transferred boot files; executing by the authenticated client of the authenticated boot files.
 - 15. The method of claim 14 wherein boot files received by the client that are incorrectly signed are not executed by the client.
 - 16. The method of claim 13 wherein the transferred boot

files include a signature and wherein the client verifies the signature.

- 17. The method of claim 13 wherein clients that have an invalid or revoked certificate are not authenticated or answered by the server.
- 18. A method of transferring via a network boot files from a server to a client having a pre-OS environment, comprising:

installing a client certificate of authenticity in the client;

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requesting by the client via the network that the server transfer the boot files to the client; sending by the client via the network the installed client certificate of authenticity; and

- 10 receiving by the client of the boot files from the server.
 - 19. The method of claim 18 further comprising: authenticating by the authenticated client of the transferred boot files; executing by the authenticated client of the authenticated boot files.
 - 20. The method of claim 19 wherein boot files received by the client that are incorrectly signed are not executed by the client.
 - 21. The method of claim 18 wherein the transferred boot files include a signature and wherein the client verifies the signature.
 - 22. The method of claim 18 wherein clients that have an

invalid or revoked certificate are not authenticated or answered by the server.

- 23. A method of transferring via a network boot files from a server to a client having a pre-OS environment, comprising:
- receiving by the server a request from the client via the network that the server transfer the boot files to the client;
 - receiving by the server via the network a previously installed client certificate of authenticity from the client;
- authenticating by the server of the client by the received client certificate of authenticity; and transferring the boot files from the server to the authenticated client.
 - 24. The method of claim 23 wherein clients that have an invalid or revoked certificate are not authenticated or answered by the server.
 - 25. The method of claim 23 wherein the transferred boot files include a signature and wherein the client verifies the signature.
 - 26. A method of transferring via a network boot files from a server to a client having a pre-OS environment, comprising:
 - requesting by the client via the network that the server

 transfer the boot files to the client;

 sending by the server via the network a server certificate
 of authenticity to the client;

 authenticating by the client of the server by the received

server certificate of authenticity;

10 requesting by the client via the network that the authenticated server transfer the boot files to the client; and

transferring the boot files from the authenticated server to the client in response to the requesting by the client.

- 27. The method of claim 26 wherein servers that have an invalid or revoked certificate are not acknowledged by the client.
- 28. The method of claim 26 wherein the transferred boot files include a signature and wherein the client verifies the signature.
- 29. The method of claim 28 wherein boot files received by the client that are incorrectly signed are not executed by the client.
- 30. A method of transferring via a network boot files from a server to a client having a pre-OS environment, comprising:
- 5 receiving by the server a request from the client via the network that the server transfer the boot files to the client:

receiving by the server via the network a previously installed client certificate of authenticity from the

10 client;

authenticating by the server of the client by the received client certificate of authenticity; and sending the boot files to the authenticated client by the server via the network.

- 31. The method of claim 30 wherein servers that have an invalid or revoked certificate are not acknowledged by the client.
- 32. The method of claim 30 wherein the transferred boot files include a signature and wherein the client verifies the signature.
- 33. The method of claim 32 wherein boot files received by the client that are incorrectly signed are not executed by the client.
- 34. A method of transferring via a network boot files from a server to a client having a pre-OS environment, comprising:
- requesting by the client via the network that the server transfer the boot files to the client; receiving by the client via the network a server certificate of authenticity from the server; authenticating by the client of the server by the received server certificate of authenticity; requesting by the client via the network that the authenticated server transfer the boot files to the client; and
- receiving the boot files from the authenticated server to 15 the client in response to the requesting by the client.
 - 35. The method of claim 34 wherein servers that have an invalid or revoked certificate are not acknowledged by the client.
 - 36. The method of claim 34 wherein the transferred boot files include a signature and wherein the client verifies

the signature.

- 37. The method of claim 34 wherein boot files received by the client that are incorrectly signed are not executed by the client.
- 38. A method of transferring via a network boot files from a server to a client having a pre-OS environment, comprising:
- 5 requesting by the client via the network that the server transfer the boot files to the client; transferring the boot files from the server to the client in response to the requesting by the client; authenticating by the client of the transferred boot files; and executing by the authenticated client of the authenticated boot files.
 - 39. The method of claim 38 wherein the transferred boot files include a signature and wherein the client verifies the signature.
 - 40. The method of claim 39 wherein boot files received by the client that are incorrectly signed are not executed by the client.
 - 41. A system for transferring boot files, comprising: a client;
 - a server having boot files;
 - software authenticating the client to the server; software authenticating the server to the client; and software transferring the boot files from the authenticated server to the authenticated client.

- 42. The system of claim 41 further comprising software authenticating the transferred boot files to the authenticated client.
- 43. The method of claim 42 wherein the authenticated client includes an operating system generated from the executed authenticated boot files.
- 44. The system of claim 41 wherein the transferred boot files include a signature and wherein the client verifies the signature.
- 45. A computer readable medium for transferring via a network boot files from a server to a client having a pre-OS environment, comprising instructions for:
- requesting by the client via the network that the server transfer the boot files to the client; sending by the client via the network a previously installed client certificate of authenticity; and receiving by the client of the boot files from the server.
 - 46. A computer readable medium for transferring via a network boot files from a server to a client having a pre-OS environment, comprising instructions for:
- 5 receiving by the server a request from the client via the network that the server transfer the boot files to the client;
 - receiving by the server via the network a previously installed client certificate of authenticity from the
- 10 client;
 authenticating by the server of the client by the received
 client certificate of authenticity; and

transferring the boot files from the server to the authenticated client.

- 47. A computer readable medium for transferring via a network boot files from a server to a client having a pre-OS environment, comprising instructions for:
- 5 receiving by the server a request from the client via the network that the server transfer the boot files to the client;

receiving by the server via the network a previously installed client certificate of authenticity from the

- authenticating by the server of the client by the received client certificate of authenticity; and sending the boot files to the authenticated client by the server via the network.
 - 48. A computer readable medium for transferring via a network boot files from a server to a client having a preOS environment, comprising instructions for:
 requesting by the client via the network that the server
 transfer the boot files to the client;
 receiving by the client via the network a server
 certificate of authenticity from the server;
 authenticating by the client of the server by the received
 server certificate of authenticity;
- requesting by the client via the network that the authenticated server transfer the boot files to the client; and receiving the boot files from the authenticated server to the client in response to the requesting by the client.